GOVERNMENT OF INDIA
SCIENCE AND TECHNOLOGY
LOK SABHA

UNSTARRED QUESTION NO:2638
ANSWERED ON:16.03.2007
GENERATION OF ELECTRICITY BY NANO TUBE
Kaushal Shri Raghuvir Singh

Will the Minister of SCIENCE AND TECHNOLOGY be pleased to state:

(a) whether the scientists in Bangalore have found that electricity is produced by pouring water on nano-tube;

(b) if so, the details thereof ;

(c) whether commercial power production is possible through this technique ;

(d) if so, the details thereof ;

(e) whether the government proposes for R & D on this technique; and

(f) if so, the details thereof?

Answer

MINISTER OF SCIENCE AND TECHNOLOGY AND MINISTER OF EARTH SCIENCES (KAPIL SIBAL)

(a)&(b) : Yes, Sir. Scientists of the Indian Institute of Science and Raman Research Institute in Bangalore have discovered that the flow of a liquid like water on single walled carbon nanotube bundles induces an electrical signal

(voltage/current) in the sample along the direction of the flow.The electrical signal is found to be logarithmic in the flow speed over a wide range.The magnitude of the flow induced electrical signal depends on the ionic conductivity and polar nature of the liquid.

(c)&(d): The invention reported so far only establishes the existence of this new effect.

(e)&(f):The scientists at Bangalore are pursuing further studies on this new effect.